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(71)Applicant : HITACHI ZOSEN CORP

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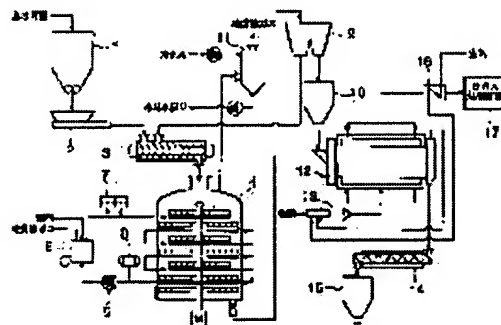
(72)Inventor : SAKABA MASARU
MURAI KENJI

(54) CARBONIZING METHOD FOR SLUDGE

(57)Abstract:

PROBLEM TO BE SOLVED: To reduce fuel consumption by granulating and drying sludge with a granulating and drying machine, baking and carbonizing the granulated and dried sludge in a reducing atmosphere, and utilizing a carbonization gas discharged from a carbonization oven as a heat source thereof.

SOLUTION: A dewatered sludge in a sludge storage tank 1 is sent with a sludge pump 2 through a sludge mixer 3 to a granulating and drying machine 4 and granulated and dried therein at 100-120°C to give a granulated and dried sludge having an average granule size of 2-5 mm, which is sent from a dried product storage tank 10 to a carbonization oven 12 and is subjected to reduction baking and carbonization at 400-600°C in a reducing atmosphere. A carbonization gas produced in the carbonization oven 12 is recirculated and sent to a hot air oven 13 to be combusted as a part of fuel. The exhaust gas from the carbonization oven 12 is subjected in an air preheater 16 to heat exchange with air for fuel supplied to the hot air oven 13, thus heating the air for fuel. The exhaust gas is then treated with an exhaust gas treating apparatus 17 to a level satisfying the environmental



quality standard and discharged into the atmosphere.

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